

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
640100-346	ACTION	(Fadine) Drivity Date (do. (marth/seed)
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 99/26927	12/11/1999	13/11/1998
Applicant		
ACTRIC THERAPEUTICS THA	a+ a1	
OSIRIS THERAPEUTICS, INC.	et al.	
This International Search Report has be according to Article 18. A copy is being to	en prepared by this International Searching Autransmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consist It is also accompanied b	s of a total of5 sheets. y a copy of each prior art document cited in this	report.
Basis of the report		
 a. With regard to the language, the language in which it was filed, ur 	e international search was carried out on the banless otherwise indicated under this item.	sis of the international application in the
Authority (Rule 23.1(b)).	was carried out on the basis of a translation of	
 With regard to any nucleotide a was carried out on the basis of the 	nd/or amino acid sequence disclosed in the in	nternational application, the international search
	ional application in written form.	
filed together with the int	ternational application in computer readable for	m.
· · ·	to this Authority in written form.	
	to this Authority in computer readble form.	
the statement that the su international application	ubsequently furnished written sequence listing of as filed has been furnished.	does not go beyond the disclosure in the
the statement that the in furnished	formation recorded in computer readable form	is identical to the written sequence listing has been
2. X Certain claims were fo	und unsearchable (See Box I).	
3. Unity of Invention is la	cking (see Box II).	
4. With regard to the title ,		
X the text is approved as s	submitted by the applicant.	
the text has been estable	ished by this Authority to read as follows:	
•		
5. With regard to the abstract,		
	submitted by the applicant.	
the text has been estable within one month from the	lished, according to Rule 38.2(b), by this Author he date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be pu	blished with the abstract is Figure No.	
as suggested by the ap	plicant.	X None of the figures.
	ailed to suggest a figure.	
because this figure bette	er characterizes the invention.	

INTERNATIONAL SEARCH REPORT

CLASSIFICATION OF SUBJECT MATTER
PC 7 A61K35/12 A61K35/28 A01K67/027 C12N5/00 A61K48/00 C12N15/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K A01K C12N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° SROUR E F ET AL.: "Sustained human 1-8 X hematopoiesis in sheep transplanted in utero during early gestation with fractionated adult human bone marrow cells" BLOOD, vol. 79, no. 6, 15 March 1992 (1992-03-15), pages 1404-1412, XP000569644 the whole document -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 27/06/2000 9 June 2000 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Teyssier, B Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Jaiogo.y		
(PROCKOP D J: "Marrow stromal cells as stem cells for nonhematopoietic tissues" SCIENCE, vol. 276, no. 5309, 4 April 1997 (1997-04-04), pages 71-74, XP002139788	1-3
٨	pages 73-74, "Potential uses in cell and gene therapy"	4-8, 24-27
(PEREIRA R F ET AL.: "Cultured adherent cells from marrow can serve as long-lasting precursor cells for bone, cartilage, and lung in irradiated mice" PROC. NAT'L. ACAD. SCI. USA, vol. 92, May 1995 (1995-05), pages 4857-4861, XP002139789	1-3
1 1	cited in the application pages 4859-4861, "Discussion"	4-8, 24-27
A	WO 97 10348 A (UNIV CALIFORNIA) 20 March 1997 (1997-03-20) page 3, line 31 -page 5, line 14 page 8, line 21 -page 11, line 27	1-8, 24-27
A	WO 94 26884 A (BIOTECHNOLOGY RES & DEV) 24 November 1994 (1994-11-24) page 1 -page 4, line 26 page 7, line 8 - line 27; claims 1,35	9–23
P,X	LIECHTY K W ET AL.: "Distribution and engraftment of human mesenchymal stem cells (MSC) after in utero transplantation in fetal sheep." BLOOD, vol. 92, no. 10 Suppl. 1, 15 November 1998 (1998-11-15), page 117A XP000914604 40th annual meeting of the American Society of Hematology, 4-8/12/1998 abstract 474	1-27
P,X	W0 99 46366 A (OSIRIS THERAPEUTICS INC) 16 September 1999 (1999-09-16) page 1 -page 2, line 21 page 11, line 15 -page 13, line 28 -/	1-3



	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.
T	ALMEIDA-PORADA G ET AL: "Human bone marrow stromal cell progenitors are able to induce donor specific tolerance after in utero transplantation." BLOOD, vol. 94, no. 10 SUPPL. 1 PART 1, 15 November 1999 (1999-11-15), page 40a XPO02139877 41th annual meeting of the American Society of Hematology, 3-7/12-1999 abastract 167	
T	DEVINE S ET AL.: "Studies of mesenchymal stem cells in non-human primates: Evaluation of toxicity and engraftment" BLOOD, vol. 94, no. 10 Suppl. 1, 15 November 1999 (1999-11-15), page 391a XP002139790 41th annual meeting of the American Society of Hematology, 3-7/12/1999 abstract 1733	

INTERNATIONAL SEARCH REPORT

rmation on patent family members

ernational Application No PCT/US 99/26927

Patent document cited in search repo		Publication date		Patent family member(s)	Publication date
W0 9710348	Α	20-03-1997	AU	7238796 A	01-04-1997
W0 9426884	A	24-11-1994	US	5523226 A	04-06-1996
110 3 12000 1	• • •	_,,	AT	184647 T	15-10-1999
			AU	694126 B	16-07-1998
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			DE	69420726 D	21-10-1999
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			US	5942435 A	24-08-1999
W0 9946366	A	16-09-1999	AU	2904299 A	27-09-1999

. TENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU		
PCT	То:		
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE		
Date of mailing (day/month/year) 01 September 2000 (01.09.00)	in its capacity as elected Office		
International application No.	Applicant's or agent's file reference		
PCT/US99/26927	640100-346		
International filing date (day/month/year)	Priority date (day/month/year)		
12 November 1999 (12.11.99) Applicant	13 November 1998 (13.11.98)		
THIEDE, Mark et al			
THESE, WAIN OF G			
1. The designated Office is hereby notified of its election made with the International Preliminar O9 June 2000 in a notice effecting later election filed with the International Preliminar O9 June 2000 The election X was was not was not made before the expiration of 19 months from the priority Rule 32.2(b).	ry Examining Authority on: (09.06.00) national Bureau on:		
The International Bureau of WIPO 34, chemin des Colombettes	Authorized officer		
34, chemin des Colombettes 1211 Geneva 20, Switzerland	Manu Berrod		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

REC'D 1 8 OCT 2001 WIPO PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	CTION See Notification of Transmittal of International		
640100-346		Prelimi	nary Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/month/year	Priority date (day/month/year)	
PCT/US99/26927	12 NOVEMBER 1999		13 NOVEMBER 1998	
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification as	nd IPC		
Applicant OSIRIS THERAPEUTICS, INC.				
Examining Authority and is 2. This REPORT consists of a	total of sheets.	cant according	epared by this International Preliminary to Article 36. description, claims and/or drawings which have	
been amended and are the	ne basis for this report and/ tion 607 of the Administra	or sheets conta	ining rectifications made before this Authority.	
		ing itomor		
3. This report contains indication	ns relating to the follow:	ing items:		
I X Basis of the repo	ort			
II Priority				
III Non-establishme	nt of report with regard	to novelty, in	ventive step or industrial applicability	
		,		
IV Lack of unity of				
V X Reasoned stateme citations and expl	nt under Article 35(2) wit anations supporting such s	h regard to no statement	velty, inventive step or industrial applicability;	
VI Certain documents	cited			
VII Certain defects in	the international application	on		
VIII Certain observation	ns on the international app	plication		
Date of submission of the demand		Date of comp	letion of this report	
09 JUNE 2000		05 SEPTE	MBER 2001	
Name and mailing address of the IPEA Commissioner of Patents and Trade Box PCT Washington, D.C. 20231		Authorized off	The Southence for woltach	
Facsimile No. (703) 305-3230		Telephone No	(703) 308-0196	

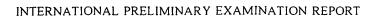
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

nternational	application	No

PCT/US99/26927

I.	Ba	sis o	f the repo	ort					
1.	With	regar	d to the ele	ments of the interna	tional application	on:*			
		the i	nternation	al application as	originally fil	ed			
	片		description		2 ,				
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		page				_ , inca with t	ic letter of		
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	X	the c	drawings:						
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		the la	anguage o	f publication of	the internatio	nal application	(under Rule 48.3(h (under Rule 23.1(b)). b)). examination (under Rules 5	
3.	pre	h rega limina	ard to any ary examir	nation was carried	out on the b	asis of the seque		onal application, the interna	ational
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		filed	together v	with the internati	onal applicat	ion in computer	readable form.		
		furni	shed subs	equently to this A	Authority in v	written form.			
- 1		furni	shed subs	equently to this A	Authority in o	computer readab	le form.		
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			statement th	nat the information	recorded in co	omputer readable	form is identical to	the writen sequence listing	has
4.	X	The	amendme	nts have resulted	in the cance	llation of:			
		X	the desci	ription, pages	NONE				
		X		ns, Nos.	NONE				
		X		ings, sheets/fig	NONE				
5.			-					they have been considered t	o go
	in th	acemer	nt sheets wh ort as "ori	ich have been furni:	shed to the rece	eiving Office in resp	ox (Rule 70.2(c)).** conse to an invitation ince they do not co	n under Anicle 14 are 🛮 refern ntain amendments (Rules 7	red to 0.16
				et containing such	amendments n	nust be referred to	o under item 1 and	annexed to this report.	



International application No.

PCT/US99/26927

1. statement			
Novelty (N)	Claims	NONE	YE
	Claims	1-27	_ NO
Inventive Step (IS)	Claims	NONE	YE.
	Claims	1-27	_ NO
Industrial Applicability (IA)	Claims	1-27	YE
	Claims	NONE	_ NO
comprising administering mesenchymal stem mesenchymal stem cells into a non-human fer Claims 9-23 encompass a method for preparing in utero and harvesting the said organ. Claims 24-27 are product claims and encompased cells from a second species. In light of the sinherently result in the chimeric organ of claim fetal sheep results in distribution and engraftm 99/46366 teaches transplantation of non-auto systemic administration of the mesenchyma step Finally, in the working examples, results demonstrated into sheep in utero results in the harvested and analyzed to demonstrate the kary	cells to the fetus (claim 4) fing an organ for its 9-23 differ fitus a hybrid organization, from 24-27. Lieunant of the stem logous mesenciem cells results constrating that the enarios (page 3 ability of the trotype of cells is the same meth	s claims 1-27. Claims 1-8 encompass a method for treating etus. No treatment step is recited therefore administra or any reason is sufficient to meet the limitations of clair transplantation comprising administering mesenchyma ster rom the method of claims 1-8 only in that the organ is har can comprising an organ from one species and mesenchyma ollowing the methods encompassed by claims 1-8 or 9-23 chty et al. teach that transplantation of mesenchymal stem a cell to various organs throughout the sheep up to 85 days hymal stem cells to a patient in need thereof. It is taug in migration to various tissues within the host (page 9, line the resulting tissues after transplantation are chimeric provi 4, lines 21-28). Srour et al. teach human mesenchymal ster ransplanted cells to undergo hematopoiesis. The bone mais chimeric, both human and ovine (TABLEs 1 and 2). While lod steps are used as recited in the claims that other tissues	tion of ns 1-8. n cells vested. I stem would cells in . WO ht that is 1-9). ded the n cells to the cother cother cother is eother



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/26927

Supr	lemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): A61K 35/12, 35/28, 48/00; A01K 67/027; C12N 5/00, 15/00 and US C1.: 424/493.1; 435/325, 455

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WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



· INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7: A61K 35/12, 35/28, 48/00, A01K 67/027, C12N 5/00, 15/00

(11) International Publication Number:

WO 00/29002

(43) International Publication Date:

25 May 2000 (25.05.00)

(21) International Application Number:

PCT/US99/26927

A3

(22) International Filing Date:

12 November 1999 (12.11.99)

(30) Priority Data: 60/108,357

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13 November 1998 (13.11.98) US

(71) Applicant (for all designated States except US): OSIRIS THERAPEUTICS, INC. [US/US]; 2001 Aliceanna Street, Baltimore, MD 21231-2001 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): THIEDE, Mark [US/US]; 12572 Markaire Drive, St. Louis, MO 63146 (US). FLAKE, Alan [US/US]; 1131 Springmont Circle, Bryn Mawr, PA 19010 (US).
- (74) Agents: LILLIE, Raymond et al.; Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, NJ 07068 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, Cl, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(88) Date of publication of the international search report: 5 October 2000 (05.10.00)

(54) Title: IN UTERO TRANSPLANTATION OF HUMAN MESENCHYMAL STEM CELLS

(57) Abstract

The present invention is directed to mesenchymal stem cells for transplantation in utero. Such mesenchymal stem cells may be employed in a method of treating a fetus, or in a method of engrafting mesenchymal stem cells, or in a method of preparing an organ for transplantation.

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onal Application No PCT/US 99/26927

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K35/12 A61K35/28 C12N15/00

A61K48/00

A01K67/027

C12N5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{A61K} & \mbox{A01K} & \mbox{C12N} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SROUR E F ET AL.: "Sustained human hematopoiesis in sheep transplanted in utero during early gestation with fractionated adult human bone marrow cells" BLOOD, vol. 79, no. 6, 15 March 1992 (1992-03-15), pages 1404-1412, XP000569644 the whole document	1-8

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
9 June 2000	27/06/2000		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Teyssier, B		



Inter onal Application No PCT/US 99/26927

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PROCKOP D J: "Marrow stromal cells as stem cells for nonhematopoietic tissues" SCIENCE, vol. 276, no. 5309, 4 April 1997 (1997-04-04), pages 71-74, XP002139788	1-3
A	pages 73-74, "Potential uses in cell and gene therapy"	4-8, 24-27
X	PEREIRA R F ET AL.: "Cultured adherent cells from marrow can serve as long-lasting precursor cells for bone, cartilage, and lung in irradiated mice" PROC. NAT'L. ACAD. SCI. USA, vol. 92, May 1995 (1995-05), pages 4857-4861, XP002139789 cited in the application	1-3
A	pages 4859-4861, "Discussion"	4-8, 24-27
A	WO 97 10348 A (UNIV CALIFORNIA) 20 March 1997 (1997-03-20) page 3, line 31 -page 5, line 14 page 8, line 21 -page 11, line 27	1-8, 24-27
A	WO 94 26884 A (BIOTECHNOLOGY RES & DEV) 24 November 1994 (1994-11-24) page 1 -page 4, line 26 page 7, line 8 - line 27; claims 1,35	9-23
P , X	LIECHTY K W ET AL.: "Distribution and engraftment of human mesenchymal stem cells (MSC) after in utero transplantation in fetal sheep." BLOOD, vol. 92, no. 10 Suppl. 1, 15 November 1998 (1998-11-15), page 117A XP000914604 40th annual meeting of the American Society of Hematology, 4-8/12/1998 abstract 474	1-27
Ρ,Χ	WO 99 46366 A (OSIRIS THERAPEUTICS INC) 16 September 1999 (1999-09-16) page 1 -page 2, line 21 page 11, line 15 -page 13, line 28	1-3



inte onal Application No PCT/US 99/26927

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant T ALMEIDA-PORADA G ET AL: "Human bone marrow stromal cell progenitors are able to induce donor specific tolerance after in utero transplantation." BLOOD, vol. 94, no. 10 SUPPL. 1 PART 1,	nt to claim No.
T ALMEIDA-PORADA G ET AL: "Human bone marrow stromal cell progenitors are able to induce donor specific tolerance after in utero transplantation." BLOOD,	nt to claim No.
marrow stromal cell progenitors are able to induce donor specific tolerance after in utero transplantation." BLOOD,	
15 November 1999 (1999-11-15), page 40a XP002139877 41th annual meeting of the American Society of Hematology, 3-7/12-1999 abastract 167	
abastract 167 DEVINE S ET AL.: "Studies of mesenchymal stem cells in non-human primates: Evaluation of toxicity and engraftment" BLOOD, vol. 94, no. 10 Suppl. 1, 15 November 1999 (1999-11-15), page 391a XP002139790 41th annual meeting of the American Society of Hematology, 3-7/12/1999 abstract 1733	



information on patent family members

Intel onal Application No PCT/US 99/26927

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9710348	Α	20-03-1997	AU	7238796 A	01-04-1997
WO 9426884	Α	24-11-1994	US	5523226 A	04-06-1996
WO 3 (2000)	•	2, 22 222.	ΑT	184647 T	15-10-1999
			AU	694126 B	16-07-1998
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			DE	69420726 T	27-04-2000
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			ËS	2140542 T	01-03-2000
			US	5942435 A	24-08-1999
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